

FORM PTO-1449
(Modified)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
06111P USA

SERIAL NO.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Use several sheets if necessary)APPLICANT
Welp, et al.

FILING DATE

GROUP

(37 CFR 1.98(b))

10/05/3787
01/21/02**U.S. PATENT DOCUMENTS**

EXAM- INER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
1/2	4 4 2 8 9 2 2	1/31/1984	Q. G. Hopkins, et al.	423	588	5/14/1982
↑	4 5 5 2 7 4 8	11/12/1985	C. T. Berglin, et al.	423	588	9/6/1983
	5 0 6 3 0 4 3	11/5/1991	E. A. Bengtsson, et al.	423	588	2/23/1990
	5 4 7 8 5 3 5	12/26/1995	G. Fierz, et al.	422/205	422/198	6/3/1994
	5 6 8 8 0 4 7	11/18/1997	A. Signer, et al.	366	337	8/7/1996
	5 7 6 3 6 8 7	6/9/1998	J. Morisaki, et al.	568/927	568/924	12/10/1996
	5 7 7 9 9 9 5	7/14/1998	H. Witt, et al.	422/215	422/224	9/25/1995
1/6	6 0 0 5 1 4 3	12/21/1999	R. M. Machado, et al.	564/423	564/420	8/7/1998
	6 2 4 2 6 4 9	6/5/2001	H. Beckhaus, et al.	564/422	564/416	10/2/1998

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO
DE	1 9 8 4 4 9 0 1	1998	Abstract - German Patent	—	—	
	0 2 3 3 6 4 2	2002	EPO	—	—	
WO	9 8 5 5 2 1 6	1998	PCT	—	—	X
WO	0 0 3 5 8 5 2	2000	PCT	—	—	X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1/10	Grosz-Röll, F., J. Bättig and F. Moser, of Koch Engineering Company, Inc. entitled, "Gas/Liquid Mass Transfer with Static Mixing Units", Fourth European Conference on Mixing, April 27-29, 1982 pp 225-236
↑	Heiszwolf, Johan J., et al. "Hydrodynamic Aspects of the Monolith Loop Reactor", Chemical Engineering Science 56 (2001) 805-812
	Patrick, Robert H., et al. "Residence Time Distribution in Three-Phase Monolith Reactor" AIChE Journal, March 1995, Vol. 41, No. 3, pp 649-657
	Kawakami, Koei, et al., "Performance of a Honeycomb Monolith Bioreactor in a Gas-Liquid-Solid Three-Phase System", Ind. Eng. Chem. Res. 1989, 28, 394-400
	Hatzlantonou, Vasillos and Andersson, Bengt, "The Segmented Two-Phase Flow Monolithic Catalyst Reactor. An Alternative for Liquid-Phase Hydrogenations", Ind. Eng. Chem. Fundam. 1981, 23, 82-88
	Hatzlantonou, Vasillos, Andersson, Bengt, and Schoon, Nils-Herman, "Mass Transfer and Selectivity in Liquid-Phase Hydrogenation of Nitro Compounds in a Monolithic Catalyst Reactor with Segmented Gas-Liquid Flow", Ind. Eng. Chem. Process Des. Dev., 1988, 25, 964-970
	Irandoost, Said and Andersson, Bengt; Department of Chemical Reaction Engineering, Chalmers University of Technology, S-412 96 Gothenburg, Sweden and Bengtsson, Erik and Siverstrom; EKA Nobel AB, S-445 01 Surte, Sweden, "Scaling Up a Monolithic Catalyst Reactor with Two-Phase Flow", Ind. Eng. Chem. Res., 1989, 28, 1489-1493
1/10	Irandoost, Said and Andersson, Bengt, "Mass Transfer and Liquid-Phase Reactions in a Segmented Two-Phase Flow Monolithic Catalyst Reactor", Chemical Engineering Science, Vol. 43, No. 8, pp. 1983-1988

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/053,787
				Filing Date	January 21, 2002
				First Named Inventor	Keith Allen Welp, et al.
				Art Unit	1744
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	06111P USA

[illegible]

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
PAJ		DE 198 58 974 A	2000-06-21	Daimler Chrysler AG		
↑		EP 0 995 489 A	2000-04-26	Praxair Technology Inc.		✓
↓		XP002264241 (Abstract)	1991-09-07	Sinion Soviet-Italian Petrochem Co.		✓
↓		EP 0 638 357 A	1995-02-15	Hoechst AG		
PAJ		JP 55 047127 A (Abstract)	1980-06-11	Kuromatsu Tokumitsu		✓

Examiner Signature	<i>[Signature]</i>	Date Considered	<i>Feb 2009</i>
-----------------------	--------------------	--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.